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DATE MAILED: 03/13/2008

## NOTICE OF ALLOWANCE AND FEE(S) DUE

6147 7590 03/13/2008 GENERAL ELECTRIC COMPANY GLOBAL RESEARCH PATENT DOCKET RM. BLDG. K1-4A59 NISKAYUNA. NY 12309

EXAMINER				
RUTHKOSKY, MARK				
ART UNIT	PAPER NUMBER			
1795				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/750,463	12/31/2003	Richard Scott Bourgeois	131757	9806	
TITLE OF INVENTION: OXIDANT AND FUEL DISTRIBUTION FOR A FUEL CELL ASSEMBLY					

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/13/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	ed below or directed otl	ng the Patent, advance of nerwise in Block 1, by (	rders and notification a) specifying a new co	of maintenance fee rrespondence addre	will be ss; and/o	mailed to the current or (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
6147 7590 6391329008 GENERAL ELECTRIC COMPANY GLOBAL RESEARCH PATENT DOCKET RM. BLDG. K1-4A59				Certificate of Mailing or Transmission  I hereby certify that this Fec(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE; address above, or being facsimile transmitted to the USPTO (571) 273–2885, on the date indicated below.			
NISKAYUNA,	NY 12309						(Depositor's name)
							(Signature)
			l				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	IVENTOR ATTORNEY DOCKET NO		ORNEY DOCKET NO.	CONFIRMATION NO.
10/750,463 TITLE OF INVENTION	12/31/2003 SOXIDANT AND FUE	L DISTRIBUTION FOR	Richard Scott Bourge A FUEL CELL ASSE			131757	9806
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	E PREV. PAID IS	UE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	06/13/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
RUTHKOS		1795	429-034000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address )2 or more recent) attack ND RESIDENCE DATA	mge of Correspondence "Indication form led. Use of a Customer A TO BE PRINTED ON		o to 3 registered paratively, ingle firm (having a or agent) and the n attorneys or agents. be printed.	s a memi ames of a If no nar	ber a 2 up to ne is 3	
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4a. The following fee(s)  Issue Fee Publication Fee (N Advance Order	vo small entity discount j		b. Payment of Fee(s): (I  A check is enclose  Payment by credit  The Director is her overpayment, to D	d. card. Form PTO-20	38 is att	ached. required fee(s), any de	
	s SMALL ENTITY state	as. See 37 CFR 1.27.				TITY status. See 37 CF	
interest as shown by the	a runtication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademarl	ta from anyone other the k Office.	in the applicant; a r	egistered	attorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name Registration No							
This collection of inform an application. Confiden submitting the completes this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu (irginia 22313-1450. DO k13-1450.	CFR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var- rden, should be sent to the O NOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or retain a benefit be estimated to take a dividual case. Any ficer, U.S. Patent a TO THIS ADDRI	y the pub 2 minute commen id Trade SS. SEN	olic which is to file (and is to complete, includin its on the amount of tir mark Office, U.S. Depa ID TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



## UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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APPLICATION NO.	FILING DA	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,463	12/31/200	03	Richard Scott Bourgeois	131757	9806
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GENERAL ELECTRIC COMPANY				RUTHKOSI	KY, MARK
GLOBAL RESI				ART UNIT	PAPER NUMBER
PATENT DOCKET RM. BLDG. K1-4A59 NISKAYUNA, NY 12309			1795 DATE MAII ED: 03/13/200	8	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 716 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 716 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)
10/750,463	BOURGEOIS, RICHARD SCOTT
Examiner	Art Unit
Mark Buthkasky	1705

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR herewith (or previously mailed), a Notice of Allowance (PTOL-85) or ol NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 and	ther appropriate communication will be mailed in due course. THIS S. This application is subject to withdrawal from issue at the initia
<ol> <li>This communication is responsive to <u>11/30/2007</u>.</li> </ol>	
2. ☑ The allowed claim(s) is/are <u>1-20</u> .	
Acknowledgment is made of a claim for foreign priority under:     a)	
<ol><li>Certified copies of the priority documents have bee</li></ol>	n received in Application No
<ol><li>Copies of the certified copies of the priority docume</li></ol>	ents have been received in this national stage application from the
International Bureau (PCT Rule 17.2(a)).	
* Certified copies not received:	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of thi noted below. Failure to timely comply will result in ABANDONMENT THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submitted. INFORMAL PATENT APPLICATION (PTO-152) which gives rea</li> </ol>	
5. CORRECTED DRAWINGS ( as "replacement sheets") must be	submitted.
<ul><li>(a) ☐ including changes required by the Notice of Draftsperson's</li></ul>	Patent Drawing Review ( PTO-948) attached
<ol> <li>hereto or 2)  to Paper No./Mail Date</li> </ol>	
<ul><li>(b) ☐ including changes required by the attached Examiner's Am Paper No./Mail Date</li></ul>	endment / Comment or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c each sheet. Replacement sheet(s) should be labeled as such in the he	
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR</li> </ol>	
Attachment(s)	_
1. Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application
Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>Interview Summary (PTO-413), Paper No./Mail Date</li> </ol>
<ol> <li>Information Disclosure Statements (PTO/SB/08),</li> </ol>	7.   Examiner's Amendment/Comment
Paper No./Mail Date	8. 🛮 Examiner's Statement of Reasons for Allowance

/Mark Ruthkosky/ Primary Examiner, Art Unit 1795

9. Other \_\_\_\_\_.

## DETAILED ACTION

# Claim Rejections - 35 USC § 112

The rejection of claims 13 and 19 under 35 U.S.C. 112, second paragraph, has been overcome by applicant's amendment to the claims.

## Claim Rejections - 35 USC § 102

The rejection of claims 1-4, 6-11, and 13-20 under 35 U.S.C. 102(b) as being anticipated by Reichner et al. (US 5,169,730) has been overcome by applicant's amendment to the claims.

# Claim Rejections - 35 USC § 103

The rejection of claims 5 and 12 under 35 U.S.C. 103(a) as being unpatentable over Reichner et al. (US 5,169,730) in view of Kelly et al. (EP 1,300,902.) has been overcome by applicant's amendment to the claims.

## Allowable Subject Matter

Claims 1-20 are allowed

The following is an examiner's statement of reasons for allowance:

The instant claims are to an oxidant distribution system for a fuel cell assembly comprising: a fuel cell having at least one oxidant inlet and at least one oxidant outlet, a housing surrounding said fuel cell, and an insulation layer interposed between said housing and said fuel cell, said insulation layer defining at least a first cavity adjacent said at least one oxidant inlet

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wherein said insulation layer is an oxidant distributor for channeling oxidant flow to said at least one oxidant inlet of said fuel cell.

The prior art does not teach a fuel cell and oxidant distribution system as claimed including one oxidant inlet and at least one oxidant outlet, a housing surrounding said fuel cell, and an insulation layer interposed between said housing and said fuel cell, wherein the insulation layer defines at least a first cavity adjacent said at least one oxidant inlet wherein said insulation layer is an oxidant distributor for channeling oxidant flow to said at least one oxidant inlet of said fuel cell.

The most pertinent prior art has been cited. Reichner et al. (US 5,169,730) teaches an oxidant distribution system for a fuel cell assembly comprising: a fuel cell having at least one oxidant inlet and at least one oxidant outlet, a housing surrounding said fuel cell, and an insulation layer interposed between said housing and said fuel cell, said insulation layer defining at least a first cavity adjacent said at least one oxidant inlet for channeling oxidant flow to said at least one oxidant inlet (see figures 1-2 and claims 1-18.) An oxidant supply feed is in communication with the cavity. The inlet distribution system includes a second portion that has a larger cross sectional size and mates with the oxidant inlet of the fuel cell in a diffuse manner (see the figures.) The outlet distribution system includes a first portion that has a larger cross sectional size than the outlet of the fuel cell (see the figures.) The insulation is a refractory ceramic such as alumina (see col. 4, lines 15-end.) The fuel cell is high temperature and a solid oxide fuel cell (col. 4, lines 14-35.) The insulation layer taught in Reichner is not an oxidant distributor. The layer does not channel oxidant flow to the oxidant inlet of the fuel cell.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

## Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Ruthkosky whose telephone number is 571-272-1291. The examiner can normally be reached on FLEX schedule (generally, Monday-Thursday from 9:00-6:30.) If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached at 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free.)

/Mark Ruthkosky/

Primary Examiner, Art Unit 1795